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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/501,045	02/09/2000	Glenn T. Colon-Bonet	10971158-1	3338

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EXAMINER

DO, CHAT C

ART UNIT	PAPER NUMBER
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2124

DATE MAILED: 10/30/2003

13

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No.	Applicant(s)	
	09/501,045	COLON-BONET, GLENN T.	
	Examiner	Art Unit	
	Chat C. Do	2124	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 21 August 2003.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1,2,4,7,8,10 and 11 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1,2,4,7,8,10 and 11 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.  
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

### Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some \* c) ☐ None of:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  
\* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                             | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____  |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)         | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ | 6) <input type="checkbox"/> Other: _____                                    |

### DETAILED ACTION

1. This communication is responsive to Amendment D, filed 8/21/2003.
2. Claims 1-2, 4, 7-8, and 10-11 are pending in this application. Claims 1 and 7 are independent claims. In Amendment D, claims 1, 4, 7-8, and 10-11 are amended. This Office Action is non-final.

#### *Claim Rejections - 35 USC § 112*

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 1-2, 4, 7-8, and 10-11 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Re claim 1, the limitation "add the separate propagate, kill, and generate bits of the third propagate, kill, and generate recoded number representation" in lines 13-15 is unclear whether the separate propagate, kill, and generate bits are the bits of the result from the first carry-save adder or are another separate bits not from the first carry-save adder. For examination purposes, the examiner considers this limitation as "add the third propagate, kill, and generate bits recoded number representation from the first carry-save adder". Claim 7 has the same problem.

Thus, claims 2, 4, 8, and 10-11 are also rejected for being dependent on the rejected base claims 1 and 7.

***Claim Rejections - 35 USC § 102***

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

6. Claims 1-2, 4, 7-8, and 10-11 are rejected under 35 U.S.C. 102(e) as being anticipated by Bradley (U.S. 6,496,846).

Re claim 1, Bradley discloses in Figure 1 an apparatus for performing the addition of PKG recoded numbers (abstract) comprising: a circuitry (102) configured to receive at least a first operand and a second operand (A and B from 0<sup>th</sup> to 7<sup>th</sup> bits), the first and second operands comprising respective first and second PKG recoded number representations (output of 106-1 encoder) of respective first and second binary operands; a first carry-save (col. 1 lines 65-66) adder (107-1, 108-1, and 109-1 in 105) configured to add first operand and second operand to generate a PKG recoded number presentation (PKGIN according to col. 4 lines 42-48 expressions); and a modified carry-save (col. 1 lines 65-66) adder (106) configured to receive the third PKG recoded number representation (PKGIN as input to 106), add the separate PKG of the third PKG recoded number representation, and generate a sum (SUMH and SUML in 106) and a carry value (PKG0 in 105).

Re claim 2, Bradley further discloses in Figure 1 sum and carry are dual rail encoded value (col. 1 line 46).

Re claim 4, Bradley further discloses in Figures 2A-2B the circuitry is configured to receive and apply a carry-in value (Cin) to the modified carry-save adder.

Re claim 7, it is a method claim of claim 1. Thus, claim 7 is also rejected under the same rationale in the rejection of rejected claim 1.

Re claim 8, it is a method claim of claim 4. Thus, claim 8 is also rejected under the same rationale in the rejection of rejected claim 4.

Re claim 10, it is a method claim of claim 2. Thus, claim 10 is also rejected under the same rationale in the rejection of rejected claim 2.

Re claim 11, it is a method claim of claim 1. Thus, claim 11 is also rejected under the same rationale in the rejection of rejected claim 1.

### ***Response to Arguments***

7. Applicant's arguments filed 8/21/2003 have been fully considered but they are not persuasive.

a. The applicant argues in pages 8-9 for claim 1 that the cited reference does not disclose the limitations in the amended claims, particularly the first carry-save adder and the modified carry-save adder.

The examiner respectfully submits that the rejection above under 102 is clearly cited each individual limitation that the cited reference has. In addition, the cited reference discloses first carry-save adder (105 to generate PKGin) configure to add first and second operands (e.g. PKG0 and PKG1) to generate a third PKG recoded number representation (e.g. PKGin1) and a modified carry-save adder is

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discloses in part 106 and Figures 2A-2B wherein the adder adds the PKGin and Cin to generate the sum and carry out in dual rail.

***Conclusion***

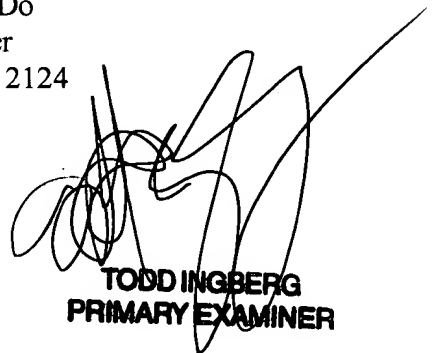
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chat C. Do whose telephone number is (703) 305-5655. The examiner can normally be reached on M => F from 7:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chaki Kakali can be reached on (703) 305-9662. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

Chat C. Do  
Examiner  
Art Unit 2124

October 24, 2003



**TODD INGSBERG  
PRIMARY EXAMINER**